

FRONT SEAT SIDE AIRBAG ASSEMBLY

ON-VEHICLE INSPECTION

1. CHECK FRONT SEAT SIDE AIRBAG ASSEMBLY (VEHICLE NOT INVOLVED IN COLLISION)

- (a) Perform a diagnostic system check (see page [RS-49](#)).
- (b) With the front seat side airbag installed on the vehicle, perform a visual check. If any of the defects mentioned below are present, replace the front seat with a new one:
Cuts, minute cracks or marked discoloration on the front seat side airbag or around the front seat side airbag.

2. CHECK FRONT SEAT SIDE AIRBAG ASSEMBLY (VEHICLE INVOLVED IN COLLISION AND AIRBAG HAS NOT DEPLOYED)

- (a) Perform a diagnostic system check (see page [RS-49](#)).
- (b) With the front seat side airbag removed from the vehicle, perform a visual check.
 - Cuts, minute cracks or marked discoloration on the front seat side airbag.
 - Cracks or other damage to the wire harness or connector.

If any of the defects mentioned above are present, replace the front seat with a new one.

CAUTION:

For removal and installation procedures of the front seat side airbag, be sure to follow the correct procedure.

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DISPOSAL

HINT:

When scrapping a vehicle equipped with SRS or disposing of the front seat side airbag, be sure to deploy the airbag first in accordance with the procedure described below. If any abnormality occurs with the airbag deployment, contact the SERVICE DEPT. of TOYOTA MOTOR SALES, U.S.A., INC.

CAUTION:

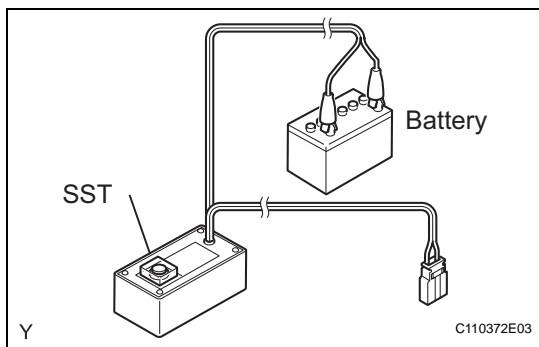
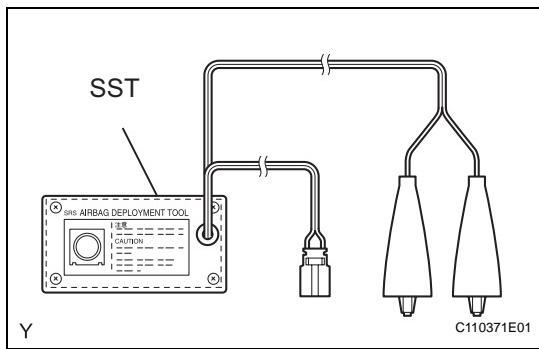
- **Never dispose of a front seat side airbag assembly that has an undeployed airbag.**
- The airbag produces an exploding sound when it is deployed, so perform the operation outdoors and where it will not create a nuisance to nearby residents.
- When deploying the airbag, always use the specified SST (SRS airbag deployment tool). Perform the operation in a place away from electrical noise.
- When deploying the airbag, perform the operation at least 10 m (33 ft.) away from the airbag.
- The front seat side airbag becomes extremely hot when the airbag is deployed, so do not touch it for at least 30 minutes after deployment.
- Use gloves and safety glasses when handling a front seat side airbag with a deployed airbag.
- Do not apply water to a front seat side airbag with a deployed airbag.
- Always wash your hands with water after completing the operation.

1. DISPOSE OF FRONT SEAT SIDE AIRBAG ASSEMBLY (WHEN INSTALLED IN VEHICLE)

HINT:

Prepare a battery as the power source to deploy the airbag.

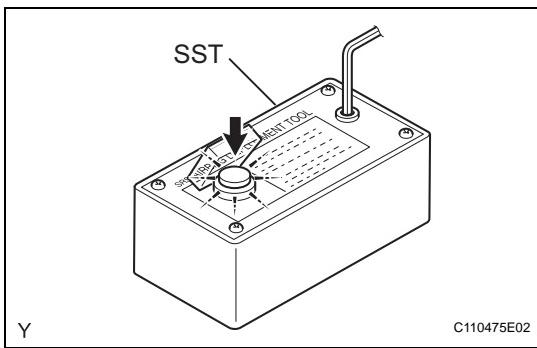
- (a) Check if SST is functioning properly.
SST 09082-00700, 09082-00750



- (1) Connect the SST's red clip to the positive (+) battery terminal and the black clip to the negative (-) battery terminal.

HINT:

The yellow connector will be used to connect to another SST in a later step.



- (2) Press the SST activation switch, and check that the LED of the SST activation switch illuminates.

CAUTION:

If the LED illuminates when the activation switch is not pressed, SST may have a malfunction, in which case that SST should not be used.

- (3) Disconnect SST from the battery.

- (b) Follow the "Precaution" (see page RS-1).

- (c) Disconnect the cable from the negative (-) battery terminal.

CAUTION:

Wait at least 90 seconds after disconnecting the cable from the negative (-) battery terminal to prevent airbag and seat belt pretensioner activation.

- (d) Manual seat:

Remove the front seat (see page SE-11).

Power seat:

Remove the front seat (see page SE-27).

HINT:

Keep the front seat in the cabin.

- (e) Install SST.

- (1) Disconnect the connector (yellow colored one) from the front seat side airbag.

NOTICE:

When handling the airbag connector, take care not to damage the airbag wire harness.

- (2) Connect the SST connector to the front seat side airbag connector.

NOTICE:

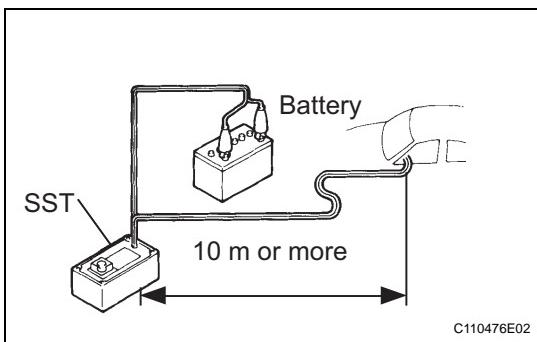
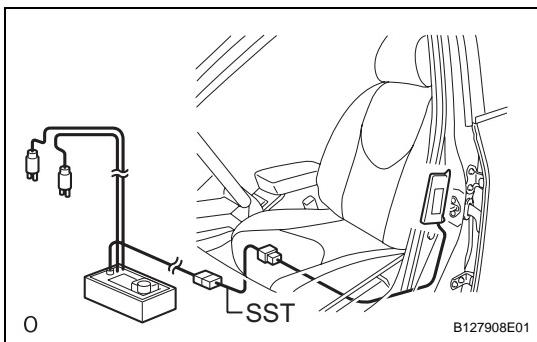
To avoid damaging the SST connector and wire harness, do not lock the secondary lock of the twin lock.

- (3) Manual seat:

Install the front seat (see page SE-22).

Power seat:

Install the front seat (see page SE-37).



- (4) Move the SST at least 10 m (33 ft.) away from the vehicle front side window.

- (5) Maintaining enough clearance for the SST wire harness in the front side window, close all doors and windows of the vehicle.

NOTICE:

Take care not to damage the SST wire harness.

- (6) Connect the SST's red clip to the battery positive (+) terminal and the black clip to the battery negative (-) terminal.

- (f) Deploy the airbag.

- (1) Check that no one is inside the vehicle or within a 10 m (33 ft.) radius of the vehicle.

- (2) Press the SST activation switch and deploy the airbag.

CAUTION:

- When deploying the airbag, make sure that no one is near the vehicle.
- The front seat side airbag becomes extremely hot when the airbag is deployed, so do not touch it for at least 30 minutes after deployment.
- Use gloves and safety glasses when handling a front seat side airbag with a deployed airbag.
- Do not apply water to a front seat side airbag with a deployed airbag.
- Always wash your hands with water after completing the operation.

HINT:

The airbag is deployed as the LED of the SST activation switch comes on.

2. DISPOSE OF FRONT SEAT SIDE AIRBAG ASSEMBLY (WHEN NOT INSTALLED IN VEHICLE)

NOTICE:

- When disposing of the front seat side airbag, never use the customer's vehicle to deploy the airbag.
- Be sure to follow the procedure detailed below when deploying the airbag.

HINT:

Prepare a battery as the power source to deploy the airbag.

- (a) Check if SST is functioning properly.

- (b) Remove the front seat side airbag.

- (1) Manual seat:

Remove the front seat (see page [SE-11](#)).

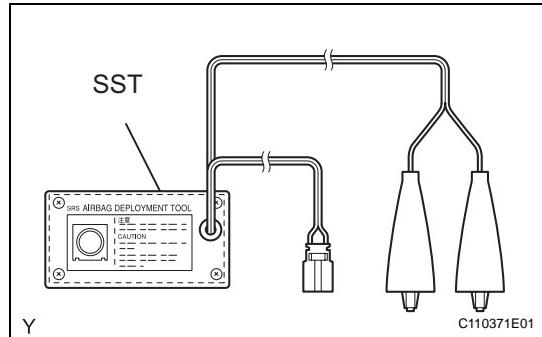
Power seat:

Remove the front seat (see page [SE-27](#)).

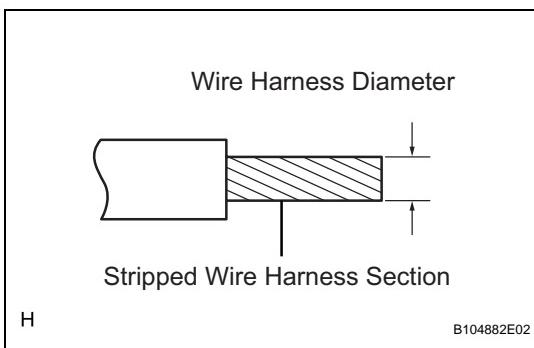
- (2) Remove the 2 nuts and front seat side airbag from the seatback.

CAUTION:

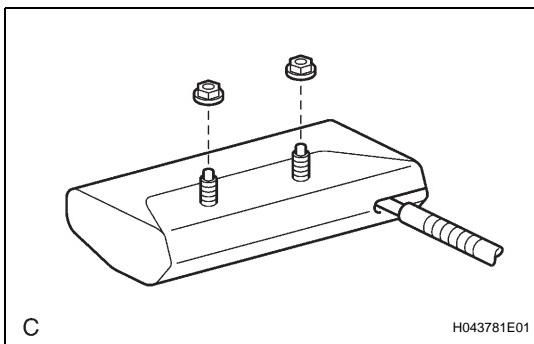
- When removing the front seat side airbag, work must be started 90 seconds after the ignition switch is turned off and the negative (-) terminal cable is disconnected from the battery.
- When storing the front seat side airbag, keep the airbag deployment side facing upward.



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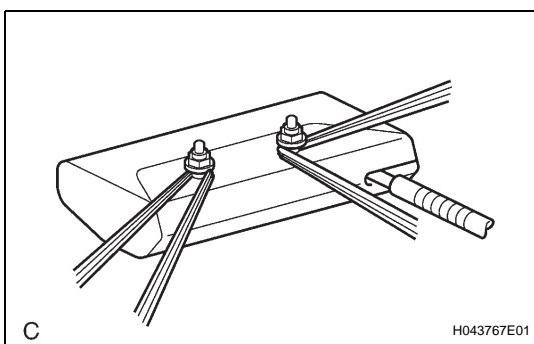


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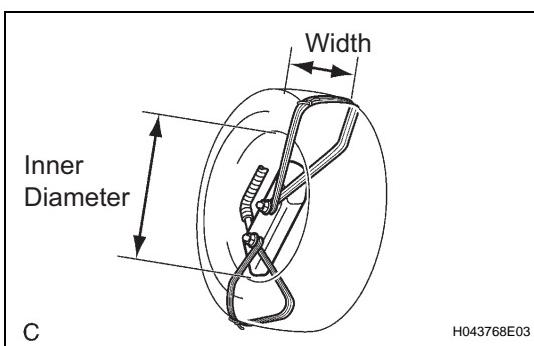
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- (c) Using a service-purpose wire harness for the vehicle, tie down the front seat side airbag to the tire.

Wire harness:

Stripped wire harness section

1.25 mm² or more (0.0019 in.² or more)

HINT:

To calculate the area of the stripped wire harness section:

$$\text{Area} = 3.14 \times (\text{Diameter})^2/4$$

CAUTION:

If the wire harness is too thin or an alternative object is used to tie down the front seat side airbag, it may be snapped by the shock when the airbag is deployed. Always use a wire harness for vehicle use with an area of at least 1.25 mm² (0.0019 in.²).

- (1) Install the 2 nuts to the front seat side airbag assembly.

- (2) Wind the wire harness around the stud bolts of the front seat side airbag as shown in the illustration.

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- (3) Position the front seat side airbag inside the tire.

Tire size:

Width minimum:

185 mm (7.28 in.)

Inner diameter minimum:

360 mm (14.17 in.)

CAUTION:

- Make sure that the wire harness is tight. If there is slack in a wire harness, the front seat side airbag may become loose due to the shock when the airbag is deployed.

- Always tie down the front seat side airbag with the airbag deployment direction facing inside the tire.

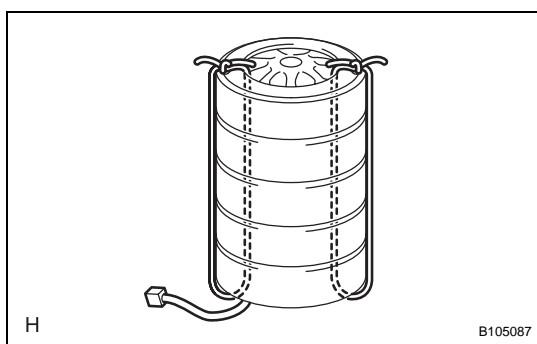
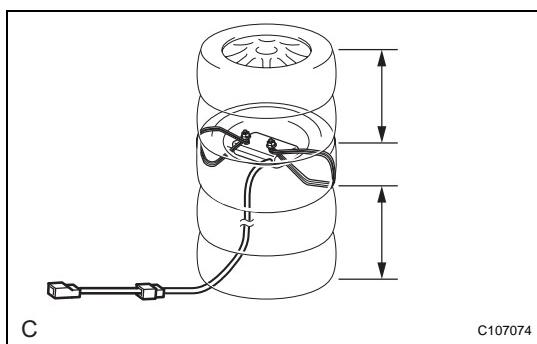
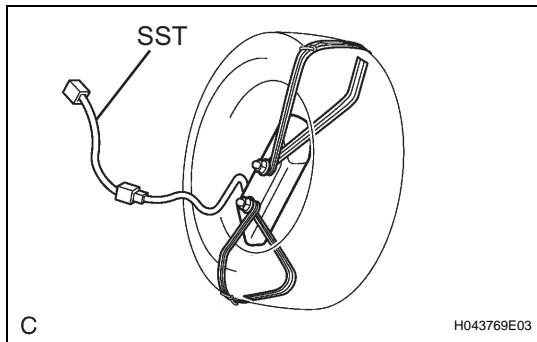
NOTICE:

Use a disc wheel (with tire) that you are planning to throw away, as the airbag deployment will damage the disc wheel.

(d) Install SST.

- (1) Connect the SST connector to the front seat side airbag connector.

SST 09082-00750



(e) Place the tires.

- (1) Place at least 2 tires under the tire to which the front seat side airbag is tied.
- (2) Place at least 2 tires over the tire to which the front seat side airbag is tied. The top tire should have the disc wheel installed.

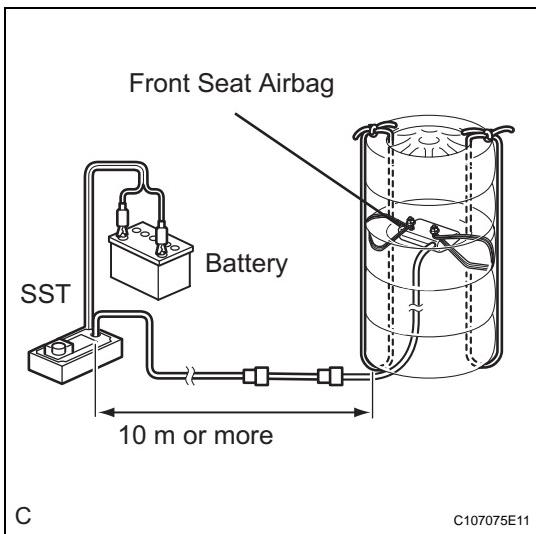
NOTICE:

Do not place the SST connector under the tire because it could be damaged.

(3) Tie the tires together with 2 wire harnesses.

CAUTION:

Make sure that the wire harnesses are tight. Looseness in the wire harness may result in the tires coming free due to the shock when the airbag is deployed.



- (f) Install SST.
- (1) Connect the SST connector.
SST 09082-00700
- NOTICE:**
To avoid damaging the SST connector and wire harness, do not lock the secondary lock of the twin lock. Also, secure some slack for the SST wire harness inside the tire.
- (g) Deploy the airbag.
- (1) Connect the SST's red clip to the battery positive (+) terminal and the black clip to the battery negative (-) terminal.
 - (2) Check that no one is within a 10 m (33 ft.) radius of the tire to which the front seat side airbag is tied.
 - (3) Press the SST activation switch and deploy the airbag.
- CAUTION:**
When deploying the airbag, make sure that no one is near the tire.
- HINT:**
The airbag is deployed as the LED of the SST activation switch comes on.
- (h) Dispose of the front seat side airbag.
- CAUTION:**
- The front seat side airbag becomes extremely hot when the airbag is deployed, so do not touch it for at least 30 minutes after deployment.
 - Use gloves and safety glasses when handling a front seat side airbag with a deployed airbag.
 - Do not apply water to a front seat side airbag assembly with a deployed airbag.
 - Always wash your hands with water after completing the operation.
- (1) Remove the front seat side airbag from the tire.
 - (2) Place the front seat side airbag in a plastic bag, tie it tightly and dispose of it in the same way as other general parts.

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